

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v308)**

1. Expand the following expression into standard form.

$$(4x + 3)^2$$

2. Expand the following expression into standard form.

$$(7x - 2)(9x - 4)$$

3. Solve the equation.

$$(8x - 3)(7x - 9) = 0$$

4. Expand the following expression into standard form.

$$(3x + 8)(3x - 8)$$

5. Factor the expression.

$$x^2 - 2x - 35$$

6. Solve the equation.

$$9x^2 + 34x + 17 = 2x^2 + 3x + 5$$

7. Solve the equation with factoring by grouping.

$$18x^2 + 15x + 24x + 20 = 0$$

8. Factor the expression.

$$16x^2 - 81$$